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 TI Fiber-reinforced sprayable repairing materials having excellent
 flowability and pumpability
 IN Kanda, Tetsushi; Kaneuji, Makoto; Sakata, Noboru; Hiraishi, Takenori;
 Suda, Kumiko
 PA Kajima Construction Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C04B028-02
 ICS C04B016-06; C04B028-02; C04B024-26
 CC 58-3 (Cement, Concrete, and Related Building Materials)
 Section cross-reference(s): 39

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PI	JP 2002193653	A2	20020710	JP 2000-392567	20001225
PRAI	JP 2000-392567		20001225		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2002193653	ICM	C04B028-02
	ICS	C04B016-06; C04B028-02; C04B024-26

AB The repairing materials are crack-dispersed short-fiber-reinforced
cement composite materials which show tensile strain $\geq 1\%$ in
 hardened body at age of 28 days. The composite materials are obtained by
 mixing >1 and ≤ 3 volume% poly(vinyl alc.) short fiber (diameter
 ≤ 0.05 mm; length 5-20 mm; tensile strength 1500-2400 MPa) into a
matrix mixture with water-binder weight ratio (W/C) $\geq 25\%$; weight ratio of
 fine aggregate to binders (S/C) 0-1.5; maximum and average particle diameter

of fine

aggregate ≤ 0.8 mm and 0.4 mm, resp.; unit water content 250-450
 kg/m³; air content after mixed up 3.5-20%; superplasticizer < 30
 kg/m³.

ST sprayable mortar polyvinyl alc fiber reinforcement repairing material;
flowability pumpability sprayable mortar fiber reinforced cement

IT Mortar

(fiber-reinforced; sprayable repairing materials having excellent
 flowability and pumpability)

IT Vinal fibers

RL: TEM (Technical or engineered material use); USES (Uses)
 (sprayable repairing materials having excellent flowability and
 pumpability)